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Please find below and/or attached an Office communication concerning this application or proceeding.

		Applicati	on No.	Applicant(s)	
Office Action Summary			82	CHANDRA ET AL.	
			r	Art Unit	
		Khanh B.	Pham	2166	
Period fo	The MAILING DATE of this communic or Reply	cation appears on th	e cover sheet with the c	correspondence address	
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Status					
, –	Responsive to communication(s) filed This action is <b>FINAL</b> . 28 Since this application is in condition for closed in accordance with the practice	o)⊠ This action is r or allowance except	non-final. for formal matters, pro		
Dispositi	on of Claims			· '	•
5)□ 6)⊠ 7)□ 8)□ <b>Applicati</b> 9)□	Claim(s) 1-40 is/are pending in the ap 4a) Of the above claim(s) 1-25 is/are versions (s) 26-40 is/are rejected.  Claim(s) is/are rejected.  Claim(s) is/are objected to.  Claim(s) are subject to restriction (s) are subject to restriction (s) are specification is objected to by the	withdrawn from consonand on and/or election recommendation on and/or election recommendation or and the second of	equirement.		
	The drawing(s) filed on is/are: Applicant may not request that any object Replacement drawing sheet(s) including t The oath or declaration is objected to	ion to the drawing(s) l	pe held in abeyance. See red if the drawing(s) is ob	e 37 CFR 1.85(a). .jected to. See 37 CFR 1.121(d)	<b>)</b> .
Priority t	ınder 35 U.S.C. § 119				
12) a)[	Acknowledgment is made of a claim for All b) Some * c) None of:  1. Certified copies of the priority d  2. Certified copies of the priority d  3. Copies of the certified copies of application from the Internation see the attached detailed Office action	ocuments have bee ocuments have bee f the priority document al Bureau (PCT Rul	en received. en received in Applicati ents have been receive le 17.2(a)).	ion No ed in this National Stage	· · ·
2) Notic 3) Inforr	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PT nation Disclosure Statement(s) (PTO-1449 or P r No(s)/Mail Date <u>1-6</u> .		4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:		·

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#### **DETAILED ACTION**

#### Election/Restrictions

1. Applicant's election without traverse of Group II (Claims 26-40) in the reply filed on March 10, 2006 is acknowledged.

## Claim Objections

- 2. Claims 26, 34-37 are objected to because of the following informalities:
  - Claim 26, line 3: semicolon ";" should be replaced with colon ":"
  - Claim 26 line 4: "an first object" should be replaced with "a first object".
- Claims 34-37, line 1: "a the relationship" should be replace with "the relationship". Appropriate correction is required.

#### Claim Rejections - 35 USC § 101

3. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claims 26-40 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

Claims 26-40 are directed to "a computer program product" comprises only software component (i.e., "an electronic database".) Claims 26-40 are therefore rejected as being intangible embodied, and therefore nonstatutory.

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### Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

5. Claims 26-39 are rejected under 35 U.S.C. 102(e) as being anticipated by Askenazi (US2002/0123847 A1), hereinafter "Askenazi".

As per claim 26, Askenazi teaches a computer program product comprising: "an electronic database storing a plurality of case statements, each case statement comprising an first object identifier; a relationship connector; and a second object identifier wherein the relationship connector is based on a life science ontology" at page 3, [0031] and Fig. 1.

As per claim 27, Askenazi teaches the product of claim 26, wherein "a set of said case statements define a biological function" at [0026].

As per claim 28, Askenazi teaches the product of claim 27, wherein "the biological function comprises a chemical reaction" at [0026], [0031].

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As per claim 29, Askenazi teaches the product of claim 27, wherein "the biological function comprises transport" at [0026], [0031].

As per claim 30, Askenazi teaches the product of claim 27, wherein "the biological function comprises digestion of a biomolecule" at [0026], [0031].

As per claim 31, Askenazi teaches the product of claim 26, wherein "at least one of the first and second object identifiers identifies a biomolecule" at [0028].

As per claim 32, Askenazi teaches the product of claim 26, wherein "at least one of the first and second object identifiers identifies a biological function" at [0026], [0031].

As per claim 33, Askenazi teaches the product of claim 26, wherein "at least one of the first and second object identifiers identifies a relationship connector" at [0026], [0031].

As per claim 34, Askenazi teaches the product of claim 26, wherein "the relationship connector represents an identity relationship" at [0026], [0031].

As per claim 35, Askenazi teaches the product of claim 26, wherein "the relationship connector represents a product relationship" at [0026], [0031].

As per claim 36, Askenazi teaches the product of claim 26, wherein "the relationship connector represents a substrate relationship" at [0026], [0031].

As per claim 37, teaches the product of claim 26, wherein "the relationship connector represents a enzymatic relationship" at [0026], [0031].

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As per claim 38, Askenazi teaches the product of claim 26 further comprising "a graphical user interface configured to permit a user to query the database at least on the relationship between biological object identifiers" at [0040], [0053]-[0078].

As per claim 39, Askenazi teaches the product of claim 26 further comprising "a data input interface configured to permit a user to create case statements" at [0040], [0053]-[0078].

#### Claim Rejections - 35 USC § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 7. Claim 40 is rejected under 35 U.S.C. 103(a) as being unpatentable over Askenazi as applied to claims 26-39 above, and in view of Stanley et al. (US 2002/0198858 A1), hereinafter "Stanley".

As per claim 40, Askenazi teaches the product of claim 26 as discussed above. Askenazi does not explicitly teach "an access manager configured to restrict access of a user to one or more portions of the electronic database" as claimed. However, Stanley teaches a biological database includes an access manger layer to restrict access of a user to one or more portions of the electronic database at Figs. 15-16. Thus, it would

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have been obvious to one of ordinary skill in the art at the time of the invention was made to combine Stanley with Askenazi teaching in order to enhance the security of the database and protect sensitive data in the database from unauthorized users.

#### Conclusion

8. The prior art made of record, listed on form PTO-892, and not relied upon, if any, is considered pertinent to applicant's disclosure.

If a reference indicated as being mailed on PTO-FORM 892 has not been enclosed in this action, please contact Lisa Craney whose telephone number is (571) 272-3574 for faster service.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Khanh B. Pham whose telephone number is (571) 272-4116. The examiner can normally be reached on Monday through Friday 7:30am to 4:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hosain Alam can be reached on (571) 272-3978. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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March 27, 2006